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Discrete ray tracing

R. Yagel, D. Cohen, A. Kaufman · IEEE Computer graphics and ... · 1992 · [ieeeexplore.ieee.org](#)
 The traversal starts as a 2D test and rapidly skips over the transparent regions. ... The extra proximity flags in the adaptive algorithm add only one test per iteration to the overall execution ... pling by adopting a 3D line algorithm that can handle sub-pixel addressing of the ray origin ...

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Fast ray-tracing of rectilinear volume data using distance transforms

M. Stamm, A. Kaufman · IEEE Transactions on Visualization ... · 2000 · [ieeeexplore.ieee.org](#)
 ... 3a, Ray(A). The hit-miss test can be performed by evaluation of the interpolating ... BASED V OXEL TRAVERSAL ALGORITHMS Not all voxels along the ray contribute to ... The macro-region based voxel traversal algorithms exploit the object space coherence, that is, the tendency ...

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Efficient ray tracing of volume data

M. Levy · ACM Transactions on Graphics (TOG), 1990 · [portal.acm.org](#)
 ... We then traverse the pyramid in the following manner. When we enter a cell, we test its value. ... 2. AMANTIDES, J., AND WOO, A. A fast voxel traversal algorithm for ray tracing. ... 26. OHTA, M., AND MAMOURU, M. Ray coherence theorem and constant time ray tracing algorithm. ...

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Applying space subdivision techniques to volume rendering

KR Subramanian, DS Fussell · Proceedings of the 1st conference ... · 1990 · [portal.acm.org](#)
 ... A similar strategy holds for identifying the traversal order when the partitioning dimension is three or z. 5 ... Ar- dent Titan 1500 running Ardent UNIX1 2.1.1 and tested the implementation on three different test cases. ... All timings are for a resolution of 640x480, with one ray cast per pixel ...

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Ray tracing on programmable graphics hardware

T.J. Furestall · Book, WIR Mann, P. ... · ACM SIGGRAPH 2005 ... · 2005 · [portal.acm.org](#)
 ... Specifying the correct stencil test with a rendering pass, we can allow the kernel to be run on only ... As with the traversal stage, the inner loop over all the triangles in a voxel involves multiple passes. ... The shading kernel evaluates the color contribution of a given ray at the hit point. ...

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Fast stereoscopic images with ray-traced volume rendering

SJ Adelson, CD Hansen · Proceedings of the 1994 symposium on ... · 1994 · [portal.acm.org](#)
 ... Three sets of volumetric data were used to test the renderer: a CT scan of a human head (1283 - Figure 3 ... eye rays traverse this box orthogonally, while the right-eye rays pass through at an angle, which is a longer traversal. ... Stephen and Hodges, Larry, Stereoscopic Ray- Tracing ...

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An interactive visualization and navigation tool for medical volume data

O Sommer, A Dietz, R Westermann, T Ertl · Computers & Graphics, 1999 · Elsevier
 ... assume an orthographic projection, the volume integration along a ray of sight collapses to the traversal of columns ... Our present approach offers the whole flexibility volume ray-casting does ... With the stencil buffer test is enabled a pixel is drawn only if it passes the test between a ...

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Fast algorithms for volume ray tracing

J. Denstein, P. Hanrahan · Proceedings of the 1992 workshop on ... · 1992 · [portal.acm.org](#)
 ... The first technique allows fast traversal of empty space using octrees. ... The din Images in the figures represent the pixel and channel-wise absolute value of the difference between the test image and the reference image. ... Think of the ray as a particle. ...

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Fast isosurface ray tracing using implicit kd-trees

I. Wald, H. Friedrich, G. Marmat, P. Slusallek ... · IEEE Transactions on ... · 2005 · [computer.org](#)
 ... traversal code requires only minimal modifications. During each traversal step, we first test whether the ... Even for a closeup on the Bonsai data set, profiling revealed only 9 percent of ... 4.3 SIMD Traversal. The same argument as for single-ray traversal holds similarly for SIMD ...

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Volumetric ray tracing

I.M. Sobierajski, AE Kaufman ... of the 1994 symposium on Volume ... · 1994 · [portal.acm.org](#)
 ... can be reduced by performing the full analytical solution only if some simpler test is passed. ... For example, if a maximum-value projection is required, then the traversal cannot terminate early, since ... In this section, a description is given for each of the ray traced images included in ...

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